

ABSTRACT

The present invention relates to a variable gain amplifier for a high frequency band, and comprises a divider for dividing a input signal; a fixed variable gain amplifier for amplifying an output signal of the divider; a 5 microstrip ring hybrid for outputting a plurality of signals which have the same or different phases, wherein the microstrip ring hybrid comprises a plurality of input terminals and output terminals having a constant impedance; a switch for selectively inputting an output of the variable gain amplifier to any one of the input terminals of the microstrip ring hybrid; a transmission line for delaying 10 the output signal of the divider; and a combiner for combining each of the output signals of the microstrip ring hybrid and a signal passing through the transmission line and outputting the combined signal, wherein the output power is controlled by selectively inputting the output of the variable gain amplifier to any one of the input terminals of the microstrip ring hybrid by 15 means of the switches, so that its input-output matching may be obtained irrespective of its gain.